

## HYUNDAI MOTOR COMPANY

EXECUTIVE ORDER A-254-0074
New Passenger Cars, Light-Duty Trucks
and Medium-Duty Vehicles

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

MODE YEAR		GROUP		VEHICLE TYPE		UST EMISSION ARD CATEGORY	FUEL TYPE  Gasoline (Indolene)						
2002	2HYX	V02.0XU(		Passenger Car	Ultra Lov	v Emission Vehicle (ULEV)							
No.		EVAPORATIVE No. PAMILY (EVAP) No. PHYXR0134PEX 1		SPECIAL FEATURE EMISSION CONTROL S	JRES & SYSTEMS (ECS)	TWC = 3-way catalytic converter WUTWC = warm-up TWC OC = oxidation catalytic converter O2S oxygen sensor AFS/HAFS = air/fuel sensor (aka. Universal O2S)/ heated AFS							
1	2HYXR013				2), WUTWC, SFI, OB								
2	*		2		*	HO2S = heated O2S EGR = exhaust gas recirculation							
3	*	· Å		701	*	AIR = secondary air injection PAIR = pulsed AIR MFI = multiport fuel injection SFI = sequential MFI							
4	*		4		*	TC/SC = turbo/super charger CAC = charge air cool OBD (F) / OBD (P) = on-board diagnosis; full / partial compliance (prefix) 2 = parallel (2) (suffix) = serie							
EVAF No.	P ECS No.			VEHICLE MAKES & MODELS	VEHICLES SUBJ		ABBREVIATIONS:						
1	1	1 2.0		Hyundai Elantra									
*	*	*				*	1948-7-1-1						
*	*	* *		The state of the s		*							
*	*	* *				*							

The exhaust and evaporative emission standards (STD) and certification emission levels (CERT) for the listed vehicles are as follows. Any debit in the manufacturer's compliance plan for "NMOG Fleet Average" (passenger cars and light-duty trucks) or "Vehicle Equivalent Credit" (medium-duty vehicles) shall be equalized as required. The 50° Fahrenheit standards and CERT levels are listed below or compliance has been met based on the manufacturer's submitted compliance plan in lieu of actual testing.

	G FLEET AGE [g/mi] STD		NMOG [g/mi] @RAF = 1.00 CH4 RAF = *			CH4 = methane NMOG = non-CH4 organic gas NMHC = non-CH4 hydrocarbon CO = carbon monoxide NOx = oxides of nitrogen HCHO = formaldehyde PM = particulate matter RAF = reactivity adjustment factor											
CERT						CO [g/mi]		N	NOx [g/mi]		HCHO [mg/mi]		Р	PM [g/mi]		Hwy NOx [g/mi]	
0.058	@ 50K		CERT		STD	0.2 0.2	STD	0.01 0.01	T   5	0.2 0.3	0.2 0.3	8 11	CERT *	r st	TD	0.01 0.02	0.3 0.4
			0	0.022 0.040 0.025 0.055			1.7								•		
K = 1000 miles			0												*		
	@ 50°1	F, 4K	0	.048	0.080	0.1	1.7	0.01		0.2	0.3	16	*		•	*	*
	[g/mi] °F, 50K STD 10.0			g = gram mg = milligram		NMHC+NOx [g/mi] (composite)		NMH	NMHC+NOx [g/mi] [US06]		CO [g/mi] [US06]			NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]	
CERT			mi=			CERT	STD	CER	т	STD	CERT	STD	CER		TD	CERT	STD
1.9			in.	@ 4K @ 100K		*	*	0.02		0.14	0.1	8.0	0.002	0.20	.20	0.1	2.7
F = degree	Fahrenh	hrenheit				* *		*		*	* *	*	*		*	*	*
@	EVAPORATIVE FAMILY 1				EVAPORATIVE FAMILY 2				ΕV	EVAPORATIVE FAMILY 3			EVAPORATIVE FAMILY 4				
100K	3-D	2-0	)	RL	ORVR	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVR
CERT	1.4	1.2	:	0.02	0.000	*	*	*	*	*	*	*	*	*		*	*
STD	2.0	2.0 2.5		0.05	0.20	* *		*	* *		*	*	*	*	*	*	*
2-D, 3-D [g/	test] = 2-c	day, 3-	day c	liurnal a	nd hot-soak		RL [g/mi] =	running l	loss		ORVR [g/g	allon of fue	l dispense	d] = on-b	oard ref	ueling vapo	r recovery

BE IT FURTHER RESOLVED: That for the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 (labeling), 1968.1 or 1968.1(m)(6.2) (on-board diagnostic systems; full or partial compliance), 2035 et seq. (emission control warranty), 2235 (fuel tank fill pipes and openings), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles).

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations. The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this \_\_\_\_\_ day of August 2001.

A R. B. Summerfield, Chief Mobile Source Operations Division